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1 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

2 Pros and cons of operating system transactions for data base systems

Gerhard Weikum

November 1999 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available: pdf(932.66 KB) Additional Information: full citation, references, citings, index terms

3 Experiences with the Amoeba distributed operating system

Andrew S. Tanenbaum, Robbert van Renesse, Hans van Staveren, Gregory J. Sharp, Sape J. Mullender

December 1990 **Communications of the ACM**, Volume 33 Issue 12

Full text available: pdf(2.71 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Amoeba project is a research effort aimed at understanding how to connect multiple computers in a seamless way [16, 17, 26, 27, 31]. The basic idea is to provide the users with the illusion of a single powerful timesharing system, when, in fact, the system is implemented on a collection of machines, potentially distributed among several countries. This research has led to the design and implementation of the Amoeba distributed operating system, which is being used as a prototype and veh ...

4 Introducing the Network Information Service for Linux

Preston Brown

June 1998 **Linux J urnal**

Full text available: html(23.36 KB) Additional Information: full citation, abstract, index terms

NIS is a system for sharing system information between machines. Mr. Brown tells us how to set up and use it

5 Testbed directions and experience: PlanetLab: an overlay testbed for broad-coverage services

Brent Chun, David Culler, Timothy Roscoe, Andy Bavier, Larry Peterson, Mike Wawrzoniak, Mic Bowman

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Full text available: pdf(158.92 KB) Additional Information: full citation, abstract, references

PlanetLab is a global overlay network for developing and accessing broad-coverage network services. Our goal is to grow to 1000 geographically distributed nodes, connected by a disverse collection of links. PlanetLab allows multiple service to run concurrently and continuously, each in its own slice of PlanetLab. This paper discribes our initial implementation of PlanetLab, including the mechanisms used to impelment virtualization, and the collection of core services used to manage PlanetLab.

6 Mac OS X panther imaging do's and don'ts

Chris Wiesemann

October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services**

Full text available: pdf(193.95 KB) Additional Information: full citation, abstract, index terms

In fall of 2003, our department decided to deploy OS X on our 100 or so Apple lab computers. Apple provided a free training session on its OS X Server Network Image Utility, and we jumped at the opportunity. A month of testing left us frustrated with the Network Image Utility and the NetInstall procedure; they simply did not work as advertised.

Apple's OS X Server imaging tools work fine in certain environments, or with post-flight modifications, but we found them to be unusable in ou ...

Keywords: apple software restore, blast image config, carbon copy cloner, casper, imaging, labs, mac OS X, netBoot, netInstall, netRestore, netRestoreHelper. Radmind

7 Jigsaw: A Revolutionary Web Server for Linux

Ibrahim F. Haddad

November 2000 **Linux Journal**

Full text available: html(14.31 KB) Additional Information: full citation, abstract, references, index terms

The design philosophy and essential features of the Jigsaw Web Server exposed.

8 Flexible control of downloaded executable content

Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2

Full text available: pdf(297.79 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a security architecture that enables system and application a ccess control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

Keyw rds: access control models, authentication, autorization machanisms, collaborative systems, role-based access control

9 Using VMware for dual operating systems

Rance D. Necaise

December 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 2

Full text available: pdf(74.71 KB) Additional Information: full citation, abstract, references, citings, index terms

Many small college computing environments are limited to a Windows platform due to limited resources. There are a number of options for introducing Unix to a small computing environment or expanding its use with little expense. The most common approaches in the past have been the use of X-servers under Windows and dual boot systems. With the more recent introduction of VMware, a new and better alternative is now available. In this paper, we review the common approaches and introduce the use of V ...

10 Session: Rule-based management of distributed operating systems

Mark D. Wood

September 1992 **Proceedings of the 5th workshop on ACM SIGOPS European workshop: Models and paradigms for distributed systems structuring**

Full text available: pdf(404.75 KB) Additional Information: full citation, abstract, references

This paper presents a paradigm for managing distributed operating system using a rule-based architecture. Recent trends have led to the structuring of operating systems, particularly those for distributed systems, as a set of microkernels with much of the system functionality being provided by a set of servers operating in user space. The proliferation of client-server based systems can easily lead to a set of independent, non-cooperating servers, with no common technique for management. The ope ...

11 Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available: pdf(168.76 KB) Additional Information: full citation, abstract, references, citings, index terms

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service.This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

12 Security: Developing a public key infrastructure for use in a teaching laboratory

Phillip T. Rawles, Kristoffer A. Baker

October 2003 **Pr ceeding f the 4th c nference n Inf rmati n techn l gy curriculum**

Full text available: pdf(226.86 KB) Additional Information: full citation, abstract, references, index terms

Founded on the principle of easy information interchange the Internet is an inherently unsafe communication medium. Despite this inherent insecurity electronic mail continues to grow as a key communication technology. Individuals and businesses both large and small

have come to rely on electronic mail. Fortunately technologies have evolved that address the lack of security in the base Internet electronic mail standards. Through the use of Public Key Infrastructure (PKI) technologies it is possib ...

Keyw rds: active directory, certificate authority, digital certificate, email, microsoft exchange, microsoft outlook, public key infrastructure

13 Setting up a SPARCstation
John Little
October 1997 **Linux Journal**
Full text available: html(24.63 KB) Additional Information: full citation, index terms

14 Puzzles and users: New client puzzle outsourcing techniques for DoS resistance
Brent Waters, Ari Juels, J. Alex Halderman, Edward W. Felten
October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**
Full text available: pdf(382.11 KB) Additional Information: full citation, abstract, references, index terms

We explore new techniques for the use of cryptographic puzzles as a countermeasure to Denial-of-Service (DoS) attacks. We propose simple new techniques that permit the out-sourcing of puzzles; their distribution via a robust external service that we call a bastion. Many servers can rely on puzzles distributed by a single bastion. We show how a bastion, somewhat surprisingly, need not know which servers rely on its services. Indeed, in one of our constructions, a bastion may consist merely of ...

Keywords: DoS, client puzzles, denial-of-service

15 VNC, transparently
Jeremy D. Impson
January 2002 **Linux Journal**, Volume 2002 Issue 93
Full text available: html(15.93 KB) Additional Information: full citation, abstract, index terms

Gain secure access to your own desktop (in the same state) from anywhere on the network.

16 File servers for network-based distributed systems
Liba Svobodova
December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4
Full text available: pdf(4.23 MB) Additional Information: full citation, references, citings, index terms, review

17 OTP in server farms
Michael Bruening, Hal Snyder, Martin Logan
October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Erlang**
Full text available: pdf(94.61 KB) Additional Information: full citation, abstract, references, index terms

Ericsson's OTP (Open Telecom Platform) offers a number of attractive features if you want to provide a variety of information services on a network with high availability, scalability, and extensibility. However, the major uses of OTP have been in closed, relay-rack systems, rather than in clusters of general-purpose servers. We describe issues we encountered while bringing up applications on OTP in the latter environment at a computer telephony

company.

Keyw rds: erlang, functional programming

18 System Administration: Large-Scale Linux Configuration Management
Paul Anderson
April 2000 **Linux Journal**
Full text available: html(15.89 KB) Additional Information: full citation, abstract, references, index terms

Mr. Anderson describes some general principles and techniques for installing and maintaining configurations on a large number of hosts and describes in detail the local configuration system at Edinburgh University.

19 Clusters for nothing and nodes for free
Alexander Perry, Hoke Trammell, David Haynes
July 2004 **Linux Journal**, Volume 2004 Issue 123
Full text available: html(26.36 KB) Additional Information: full citation, abstract

The processing power you need for big nightly jobs is all around you, and the desktop users won't miss it.

20 Getting in the Fast Lane
Michael Hughes
June 1998 **Linux Journal**
Full text available: html(20.87 KB) Additional Information: full citation, abstract, references, index terms

Here's how to set up a broadband connection for your home or office LAN

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